

In the Specification

Please delete paragraph [0013] in its entirety and replace it with the following:

[0013] High level design documents (HLDs) and low level design documents (LLDs) are comprehensive documents which may contain any of the preceding information. Additionally, HLDs and LLDs typically provide a narrative text description of design. HLDs provide less detail than LLDs. The definition of the type of information belonging in a HLD versus the information belonging in ~~[[a]]~~ an LLD differs from one software development organization to another. Some software development organizations produce only HLDs and no LLDs. Some software development organizations do not produce either HLDs or LLDs, but capture the information with other artifacts.

Please delete paragraph [0015] in its entirety and replace it with the following:

[0015] A system for building software use cases and related state diagrams based on a model of business activities is provided. The system comprises the model of business activities, and a computer based modeling tool that is used to compose the use cases and the related state diagrams. The system further includes an integration component that maps the business activities enumerated in the model of business activities to use cases. The system includes a graphical user interface, which illustrates the relationship among ~~uses~~ use cases and the relationship between use cases and business requirements, and a state diagram component operable to prepare state activity diagrams based on the business activities. The model of business activities enumerates business activities and associates each business activity with the business domain in which the business activity is normally conducted. The integration component is in communication with the model of business

activities and with the modeling tool and provides a list of selectable business activities to the graphical user interface from which to compose use cases and state activity diagrams.

Please delete paragraph [0016] in its entirety and replace it with the following:

[0016] A method for building a state activity diagram based on a business activity model is also provided. The method comprises providing the business activity model, segmenting ~~uses~~ use cases based on the hierarchical relationships among the business activities identified in the business activity model, selecting one of the use cases, and displaying the use case in a state activity diagram. The business activity model enumerates the business activities, associates each business activity with a level in a hierarchy of business activities, and associates each business activity with the business domain in which the business activity is normally conducted. The state activity diagram displays business activities in the business domain column associated with the business activity.

Please delete paragraph [0042] in its entirety and replace it with the following:

[0042] Several exemplary process use cases are listed in the second use case screen 200, and a fulfillment activate MMS service process use case 204 is shown as selected. A use case diagram 206 displays on the right side of the second use case screen 200. The use case diagram 206 illustrates the actors, the several levels of use cases 30, and the relationships among the use cases 30. The use case diagram 206 view is helpful in that it aids understanding, orienting the analyst to other ~~uses~~ use cases above, below, and beside the current use case in the use case model hierarchy.

Please delete paragraph [0044] in its entirety and replace it with the following:

[0044] Turning now to Figure 4A, a third use case screen 230 of the GUI 34 for creating and examining the system integration use cases views of the use cases 30 is depicted. Note that the third use case screen 230 is exemplary. The comprehensive set of system integration use cases in

the use cases 30 represent the system integration functionality based on the system requirements gathered during software requirements modeling and based on the interface documentation gathered during use of the basic CASE tool 14 to analyze and document interfaces. The system integration use cases are located in the system integration use case view folder 231, in the third use case screen 230. System integration use cases are segmented according to the eTOM artifact 26. There is a linkage between the display of information in the third use case screen 230 and the eTOM artifact 26. The third use case screen 230 lists activities cataloged in the eTOM artifact 26 which may be selected to become system integration use cases 30. Several exemplary system integration use cases are listed in the third use case screen 230. The use case diagram 206 illustrates actors, the several levels of use cases 30, and the relationships among the use cases 30. The use case diagram 206 view is helpful in that it aids understanding, orienting the analyst to other ~~uses~~ use cases above, below, and beside the current use case in the use case model hierarchy.

Please delete paragraph [0047] in its entirety and replace it with the following:

[0047] Turning now to Figure 5, a flow chart ~~[[300]]~~ 250 depicts a process for building a use case model using the system 10. The process begins at block 252 where the eTOM artifact 26 is provided. The process proceeds to block 254 where the business requirements 20 are provided. The process proceeds to block 256 where scope level use cases are selected from the eTOM artifact 26. The first use case screen 110 displays a list of processes enumerated in the eTOM artifact 26 as being scope level processes. One of these processes or activities is selected as a scope level use case. The process proceeds to block 258 where the selected scope level use case is defined using, for example, the first use case screen 110.

Please delete paragraph [0051] in its entirety and replace it with the following:

[0051] Turning now to Figure 6, an exemplary state activity diagram ~~[[250]]~~ 300 is depicted. The typical state activity diagram represents a high level business activity as a sequence of finer grained constituent business activities. The business activities are directionally connected or directionally linked. In the exemplary state activity diagram ~~[[250]]~~ 300, linkage or connection between business activities is represented by a joining line, and direction of linkage or connection is represented by the arrow. Possible alternate processing paths are indicated within the state activity diagram.

Please delete paragraph [0054] in its entirety and replace it with the following:

[0054] Turning now to Figure 7, a flow chart 350 of a process for building a state activity diagram, such as illustrated in Figure 6, is depicted. The process proceeds to block 352 where the eTOM artifact 26 is provided. The process flows to block 354 where an activity enumerated in the eTOM artifact 26 and displayed in the GUI 34 screen is selected. The process proceeds to block 356 where the activity is dragged to the GUI 34 screen. The process proceeds to block ~~[[258]]~~ 358 where the activity is displayed in the column of the business domain with which the activity is associated by the eTOM artifact 26. The process proceeds to block 360 where the activity is connected to other activities in the state activity diagram with directional arrows. The process then exits.

Please delete the Abstract in its entirety and replace it with the following:

A system for building software use cases and related state diagrams based on a model of business activities is provided. The system comprises the model of business activities and a computer based modeling tool that is used to compose the use cases and the related state diagrams. The system includes an integration component, which maps the business activities to use cases, and a graphical user interface, which illustrates the relationships among ~~uses~~ use cases and the relationships between use cases and business requirements. A state diagram component maps

business activities to assist in the preparation of state activity diagrams. The model of business activities enumerates business activities and associates each business activity with the business domain in which the business activity is normally conducted. The integration component provides a list of selectable business activities to the graphical user interface from which to compose use cases and state activity diagrams.